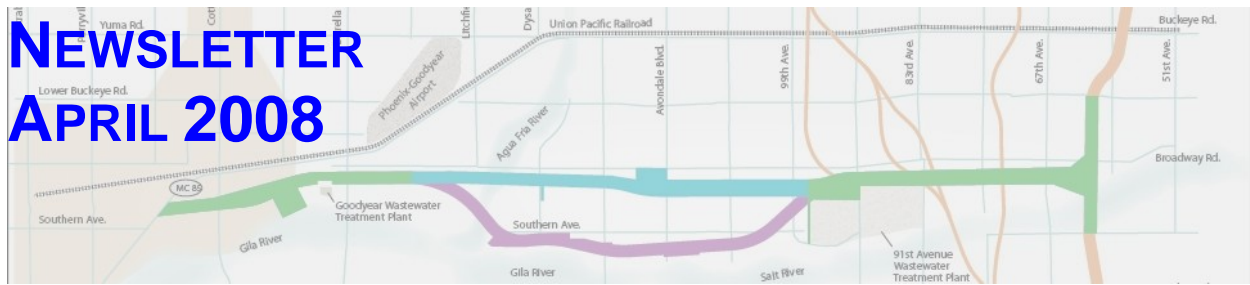


NEWSLETTER APRIL 2008



State Planning and Research (SPR) Projects

[SPR-609, DRIVER EDUCATION FOR SAFETY IN ADVERSE DRIVING CONDITIONS](#)

Under adverse driving conditions, inadequate driver training or education can lead to severe crashes. The purpose of this research was to determine the state-of-the-art practices in educating drivers for safety in certain adverse driving conditions and to develop a realistic module of a driver education program addressing that topic. In addition, the research sought to determine whether any relevant laws and regulations related to driving in the State of Arizona need to be changed in order to properly address safety under adverse driving conditions.

The study consisted of four main tasks: a literature review, statistical analysis of Arizona crash data, a survey of other states regarding their driver education programs, and targeted case studies of selected states and other private or semi-government agencies involved in driver education curriculum development and implementation.

The report recommended that Arizona continue its on-going efforts to convene a driver education task force consisting of both Arizona Department of Education and Motor Vehicle Division representatives to develop uniform standards for both driver education curriculum and training for driver education instructors. Other recommendations were to adopt a complete driver education curriculum as opposed to a module geared towards adverse driving conditions.

[SPR-627, STATE-OF-THE-ART EVALUATION OF TRAFFIC DETECTION AND MONITORING SYSTEMS \(VOLUME 1 REPORT\)](#)

The primary objectives of this research were to identify the most promising vehicle detection technologies to meet Arizona Department of Transportation (ADOT) needs, to identify candidate test sites, to develop a field test evaluation plan, and to develop and deliver a detailed design of the detection testbed on the selected segment of freeway. The research resulted in a detailed design and budget for a proposed test facility located on I-10 in Phoenix just west of the 16th Street interchange. This information will allow ADOT to build and operate a test bed to evaluate a variety of vehicle detection equipment. Baseline ground truth data will be collected using inductive signatures as its basis of detection.

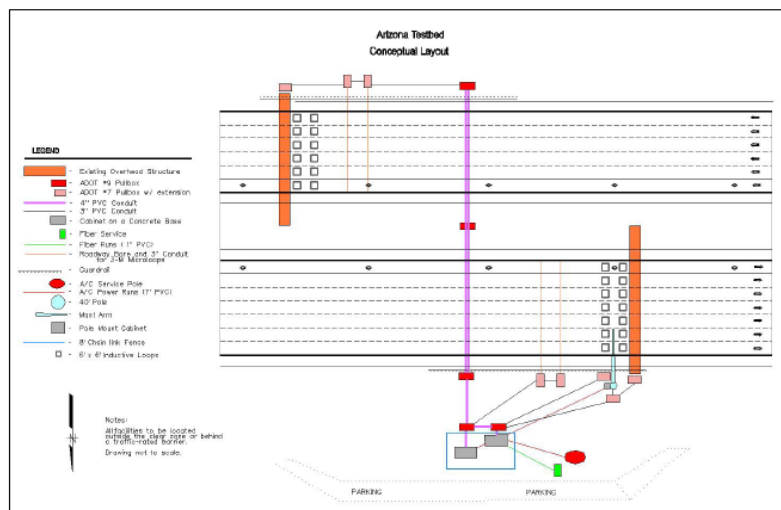


Figure 19: Conceptual Testbed Design

COMPLETED PROJECTS

All recent published reports and many archival reports are available online at:

www.azdot.gov/TPD/ATRC/Publications/project_reports/index.asp

ATRC LIBRARY

ATRC library information, including the library catalogue, is available online at:

<http://www.azdot.gov/TPD/ATRC/library/index.asp>

SMALL BUDGET PROJECTS

The small budget program provides research funding throughout the year for projects with budgets up to \$25,000. Six small budget projects were recently added to the research program.

- SPR-657, *Options for Reducing Copper Theft* (budget: \$15,000)
- SPR-658, *Performance Testing of HPC on the Sunshine Bridge Project* (budget \$25,000)
- SPR-659, *Genetic Variation of Pronghorn across US Highway 89 and State Route 64* (budget \$15,000)
- SPR-660, *Arizona Transportation History* (budget \$25,000)
- SPR-661, *Engineering Design Methods to Mitigate Damages from Earth Fissures* (budget \$25,000)
- SPR-662, *Cost Effectiveness of MVD Fee Collections* (budget \$25,000)



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